DATE RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit) June 2001 PE NUMBER AND TITLE BUDGET ACTIVITY **PROJECT** 0207163F Advanced Medium Range Air-to-Air Missile 3777 07 - Operational System Development FY 2003 FY 2004 FY 2007 FY 2000 FY 2001 FY 2002 FY 2005 FY 2006 Cost to **Total Cost** COST (\$ in Thousands) Estimate Estimate Actual Estimate Estimate Estimate Estimate Estimate Complete 3777 **AMRAAM** 49,597 53,214 57,702 37,190 33,367 34,301 36,652 37,804 0 693,833 0 O 0 0 0 0 Quantity of RDT&E Articles 0

Note: The FY03 - FY07 budget numbers do not reflect DOD's strategic review results

(U) A. Mission Description

The Air Force and Navy developed the baseline Advanced Medium Range Air-to-Air Missile (AMRAAM) as a high performance, all weather missile to counter existing air vehicle threats operating at high or low altitude and having advanced Electronic Protection (EP) capabilities. The AMRAAM Pre-Planned Product Improvement (P3I) program provides for a continuing, Joint Air Force/Navy research and development program which enables AMRAAM to: (1) be compatible with advanced fighters, (2) enhance AMRAAM capability and operational flexibility against mid-1990's and beyond threats, (3) incorporate high payoff technology developments, and (4) investigate variants and/or alternate missions which may use many baseline missile attributes. Currently, improvements under the P3I program include enhanced EP capabilities; improved weapon effectiveness through improved warhead, fuzing, and guidance; and increased kinematics. AMRAAM is a joint Air Force/Navy, Acquisition Category (ACAT) IC program with Air Force as lead service.

(U) FY 2000 (\$ in Thousands)

(U) \$47,828 Continue P3I Phase 3 improved seeker and advanced EP updates

(U) \$1,695 Continue mission support (U) \$74 Continue test and evaluation

(U) \$49,597 Total

(U) FY 2001 (\$ in Thousands)

(U) \$50,831 Continue P3I Phase 3 improved seeker and advanced EP updates

(U) \$1,625 Continue mission support (U) \$758 Continue test and evaluation

(U) \$53,214 Total

Funding (FY01): The following net transactions are not reflected in the FY01 program total. BTR= -\$331K and SBIR= -\$2,059K. These transactions are not reflected in the other sections of the R-Docs where an FY01 total is shown

Project 3777 Page 1 of 5 Pages Exhibit R-2 (PE 0207163F)

	RDT&E BUDGET ITEM JUSTIFICATION	ON SHEET (R-2 Exhib	oit)	DATE Jun e	e 2001
	GET ACTIVITY Operational System Development	PE NUMBER AND TITLE 0207163F Advance	d Medium Rar	nge Air-to-Air Mis	PROJECT SSILE 3777
(U)	A. Mission Description Continued				,
(U) (U)	FY 2002 (\$ in Thousands) \$55,953 Conduct P3I Phase 3 P3I Phase 3 ACE Flights P3I Phase 3 Seeker Test Readiness Review				
(U) (U)	\$1,661 Continue mission support \$88 Continue test and evaluation				
(U)	\$57,702 Total				
(U)	B. Budget Activity Justification This program is in budget activity 7 - Operational System Development,	providing upgrades to the AIM-12	20C missile current	ly in production.	
(U)	C. Program Change Summary (\$ in Thousands)				
		<u>FY 2000</u>	FY 2001	FY 2002	Total Cost
(U)	Previous President's Budget (FY 2001 PBR)	52,146	53,707	50,924	685,633
(U)	Appropriated Value	52,783	53,707		
(U)	Adjustments to Appropriated Value				
	a. Congressional/General Reductions	-351	-376		
	b. Small Business Innovative Research	-1,122			
	c. Omnibus or Other Above Threshold Reprogramd. Below Threshold Reprogram	-1,507			
	e. Rescissions	-206	-117		
(U)	Adjustments to Budget Years Since FY 2001 PBR	200	11,	6,778	8,200
(U)	Current Budget Submit/FY 2002 PBR	49,597	53,214	57,702	693,833
(U)	Significant Program Changes: Funding (FY02): \$6.513M for FY02 were realigned to support contract	or and test rate increases for P3I Pl	nase 3.		
	roject 3777	Page 2 of 5 Pages		E 1335	(PE 0207163F)

	RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit) DATE June 2001											
BUDGET ACTIVITY 07 - Operational System Development						NUMBER AND	TITLE	Range A	PROJECT Air-to-Air Missile 3777			
(U)	D. Other Program Funding St	ummary (\$ FY 2000	in Thousand FY 2001	s) FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Cost to	<u>Total Cost</u>	
(U)	Missile Procurement, Budget Activity #2, PE 0207163F, P-1 Line Item, AMRAAM	<u>Actual</u> 83,630	<u>Estimate</u> 97,174	<u>Estimate</u> 104,701	<u>Estimate</u> 100,218	<u>Estimate</u> 105,330	<u>Estimate</u> 113,887	<u>Estimate</u> 111,023	<u>Estimate</u> 107,875	<u>Complete</u> 89,326	6,850,161	
(U)	Replenishment Spares, BP25	327	231	242	241	197	285	203	203	200	60,286	
(U) (U)	Initial Spares, BP26 Seek Eagle	217 0	137 607	76 0	89 0	76 0	76 0	76 0	76 0	75 0	63,337 15,132	
	user requirements. The Phase 1 Phase 2 AIM-120 C4 missile ad first Phase 2 AIM-120 C4 missi major upgrade to the seeker hard contract was awarded in Oct FY kinematics.	ds a new wa le was delive dware and so	rhead which a ered in Aug of oftware to me	increases letle f FY99. The et performan	nality and the Phase 2 AII ace requireme	AIM-120 C M-120 C5 mi ents for the F	5 missile has ssiles started Y04 and out	a +5 inch ro delivery in J time-period.	cket motor for ful of FY00. The Phase 3	or kinematic improv The Phase 3 missil Cost Plus Award	vements. The e is the first Fee EMD	
(U)	F. Schedule Profile					FY 2000		<u>FY 2</u>	<u>001</u>	<u>FY</u>	<u>2002</u>	
(U)	P3I Phase 3 Fuzing Functional OP3I Phase 3 Seeker Preliminary P3I Phase 3 Seeker Critical Des	Design Rev	iew (PDR)	A)	1 2	2 3 * *	4 1	2	3 4	1 2	3 4	
(U)	P3I Phase 3 ACE Flights P3I Phase 3 Seeker Test Readin									X	X X	
P	roject 3777				Page 3 of	5 Pages				Exhibit R-2 (F	E 0207163F)	

RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)									DATE	1	
	GET ACTIVITY Operational System I	Developme	nt			er and title 3F Advan	ced Mediu	ım Range	Air-to-Ai		PROJECT 3777
(U)	A. Project Cost Breakdown	(\$ in Thousand	ds)								
(U) (U) (U) (U)	a. Phase 3 EMD Improved Sob. Gov Mission Supportc. Gov Test & EvaluationTotal			1,	2000 828 695 74 597	FY 2001 50,831 1,625 758 53,214		FY 2002 55,953 1,661 88 57,702			
(U)	B. Budget Acquisition Histor	ry and Plannin	<u>ig Information</u>	ı (\$ in Thousand	ds)						
(U)	Performing Organizations: Contractor or Government Performing Activity Product Development Organiz Misc. Contracts F08635, 00, C, 0201 Hydrog	Contract Method/Type or Funding Vehicle zations SS/FFP SS/FFP	Award or Obligation Date Annual	Performing Activity EAC N/A	Project Office EAC N/A 5,200	Total Prior to FY 2000 8,702 5,200	Budget FY 2000	Budget FY 2001	Budget FY 2002 2,992 0	Budget to Complete 3,298	<u>Total</u> <u>Program</u> 17,836
	F08635-90-C-0201 Hughes F08626-91-C-0034 Hughes F08626-93-C-0044 (Phase 2) Hughes	SS/CPIF	Aug 90 Mar 91 Jun 94	5,200 93,506 117,558	93,506 117,558	93,506 117,558	0 0 0	0 0 0	0	0 0	5,200 93,506 117,558
	Phase 3 Risk Reduction Phase 3 Improved Fuzing Capability	SS/CPAF SS/CPAF	Oct 95 Oct 99	24,484 3,937	24,484 3,937	24,484 3,937	0 0	0 0	0 0	0	24,484 3,937
	Phase 3 Improved Seeker a not Advanced EP. Raytheon F08626-98-C-0027 EMD Contract Phase 3 Follow on		Oct 99 Oct 04	206,822 TBD	206,822 TBD	24,434	46,158	49,657	52,961	33,612 132,891	206,822 132,891
Р	roject 3777	ge 4 of 5 Pag	ges			Exhib	it R-3 (PE 0	207163F)			

	RDT&E PROG	RAM ELE	MENT/F	PROJECT C	OST BR	EAKDO	WN (R-3)		DATE	June 200	<u> </u>
	GET ACTIVITY Operational System				PE NUMBEI	R AND TITLE	nced Mediu				PROJECT
	Performing Organizations *Note: Hughes became part	Continued:		e Dec 97	020110	n Auvan	icea Meait	illi Kange	All-to-All	WIISSIIC	3111
	Support and Management Or COEA Contractor Support JSPO Operations Test and Evaluation Organiza	PO/MIPR REO/PR PR/IMPAC	Jan 94 Annual Annual	N/A N/A N/A	N/A N/A N/A	3,358 16,126 18,323	0 1,236 459	0 1,062 563	0 1,082 579	0 5,790 3,315	25,296
	Government Test	REO/MIPR	Annual	N/A	N/A	35,998	74	758	88	408	37,326
(U)	Item Description Product Development Proper Not Applicable Support and Management Pro Not Applicable Test and Evaluation Property	Contract Method/Type or Funding Vehicle	Award or Obligation Date	<u>Delivery</u> <u>Date</u>		Total Prior to FY 2000	Budget FY 2000	Budget FY 2001	Budget FY 2002	Budget to Complete	
	TM/ECM Pods Subtotals Subtotal Product Developmer Subtotal Support and Manage Subtotal Test and Evaluation Total Project		Annual			2,380 <u>Total Prior</u> to FY 2000 277,821 37,807 38,378 354,006	0 <u>Budget</u> <u>FY 2000</u> 47,828 1,695 74 49,597	0 <u>Budget</u> <u>FY 2001</u> 50,831 1,625 758 53,214	0 <u>Budget</u> <u>FY 2002</u> 55,953 1,661 88 57,702	0 <u>Budget to</u> <u>Complete</u> 169,801 9,105 408 179,314	<u>Program</u> 602,234
P	roject 3777			Pa	ge 5 of 5 Page	s			Exhib	it R-3 (PE (0207163F)